

RED HAT CLOUDFORMS

Unified management for hybrid environments

DATASHEET

UNIFIED MANAGEMENT

Gain comprehensive visibility across virtualization, private cloud, public cloud, and container-based environments.

COMPLETE LIFECYCLE MANAGEMENT

Go beyond self-service and gain provisioning, integration, resource management, operational management, retirement and financial reporting.

OPERATIONAL VISIBILITY

Discover and map resources and their relationships. Keep up to date with continual monitoring of managed resources.

COMPLIANCE AND GOVERNANCE

Automatically enforce policy across all environments with support from comprehensive insights and detailed logging.

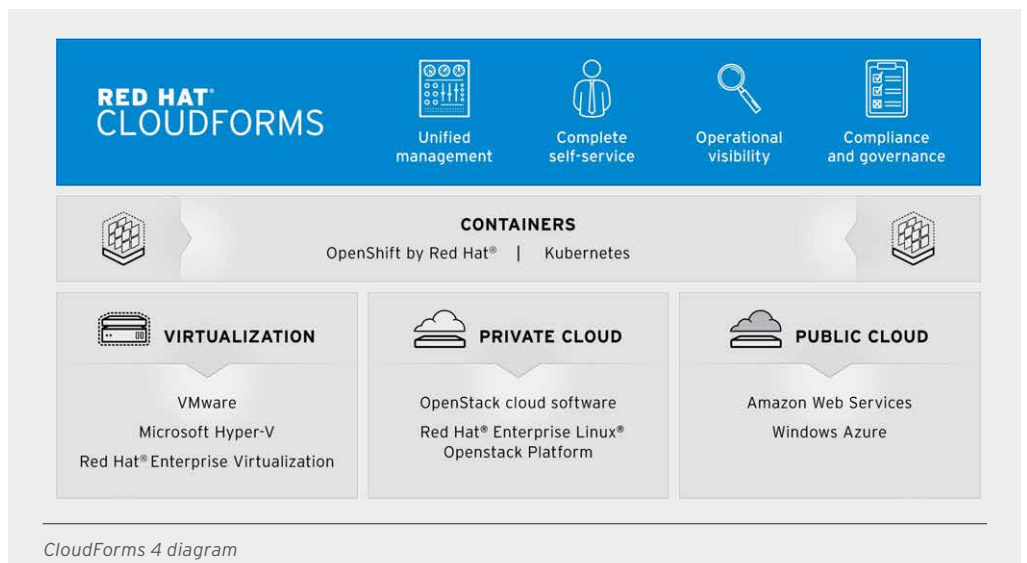
RAPID TIME TO VALUE

Integrate data and resources to compose a complete management solution. Delivered as an agentless virtual appliance to deploy and scale quickly.

PRODUCT OVERVIEW

Hybrid environments – those composed of a mix of virtualization, private or public cloud platforms, and container-based infrastructures – present significant management challenges to IT organizations. These organizations are pressured to respond quickly to end-user demands, no matter the scale and complexity of the hybrid environment or the processes and staff required to manage them. Achieving a balance between the end user’s desire for speed and autonomy and IT’s desire for management and control is critical for success.

Red Hat® CloudForms offers unified management for hybrid environments, providing a consistent experience and functionality across infrastructures. CloudForms helps enterprises accelerate service delivery by providing end users with a self-service provisioning portal. It also goes beyond self-service to include complete operational and lifecycle management of the deployed services. In this way, IT organizations can delegate actions to end users as required, while retaining operational control to meet service levels and ensure compliance.



FEATURES AND BENEFITS

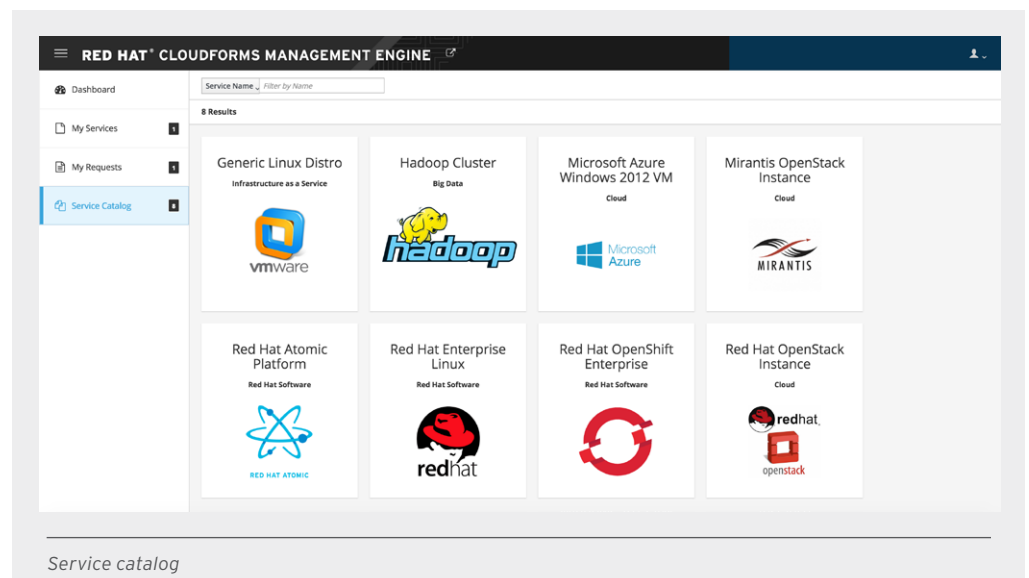
CloudForms provides IT organizations with greater operational visibility through continuous discovery, monitoring, and deep inspection of managed resources. It can provision to new (greenfield) environments, and provide management for existing (brownfield) environments by scanning and detecting resources that were not provisioned via CloudForms. Upon provisioning or discovery, CloudForms continuously monitors those resources, providing deep insights into the environment’s operations. This allows CloudForms to help IT staff understand the relationships between resources, track down the root causes of issues, and plan for future scenarios.



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Building on the deep insights and collected data, CloudForms ensures compliance and governance using automated policy enforcement and remediation. Policies ensure that all of the resources under management, regardless of platform or method of provisioning, remain compliant with corporate and regulatory requirements. And if CloudForms detects an out-of-compliance state, it can execute actions – from raising alerts and notifications to automatically remediating the issue. Throughout this process, CloudForms maintains tracking and audit logs that provide a clear timeline of events and actions.

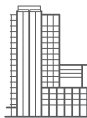
CloudForms is designed to quickly deliver a return on investment. Its delivery as a virtual appliance makes installation easy, and it can scan and monitor the infrastructure without agent deployment. CloudForms contains both high-availability data stores and horizontally-scaled processing nodes for the most demanding enterprise environments. Finally, CloudForms robust integration qualities improves your entire system – providing a larger set of information to use making decisions, and enabling direction of a broader array of IT processes. CloudForms also drastically reduces operational costs, reducing or eliminating manual processes that burden IT staff.



KEY FEATURES

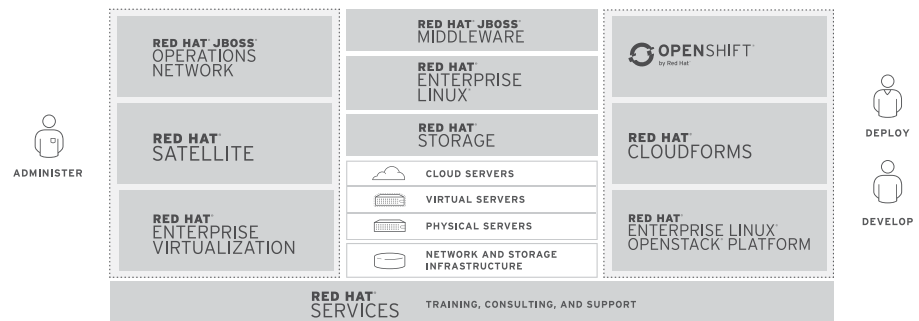
- Provides choice and flexibility by supplying a unified and consistent set of management capabilities across:
 - Virtualization platforms like Red Hat Enterprise Virtualization, VMware vRealize, and Microsoft Hyper-V
 - Private cloud platforms based on OpenStack® like Red Hat Enterprise Linux OpenStack Platform
 - Public cloud platforms like Amazon Web Services and Microsoft Azure
 - Container-based environments like OpenShift by Red Hat and kubernetes

- Complete lifecycle management – including provisioning, reconfiguration, deprovisioning, and retirement – with a choice of self-service portals
- Operational management required to start, stop, flex, and scale deployed services
- User-based resource quotas, usage monitoring, and financial charge-back
- Forensic analysis using Smart State data to analyze virtual machine instances
- Relationship mapping throughout the infrastructure levels – from application containers down to physical systems – providing greater operational visibility
- Timeline and event tracking for help in root cause analysis
- Resource trend tracking to aid in capacity and what-if scenario planning
- Configuration auditing to prevent deployment of improper services
- Change tracking and audit logs that record all actions, so they can be traced back to the source
- Policy infraction alerts, with an option to have CloudForms automatically resolve the issue



ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.



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